

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously presented) Phosphonated poly(4-phenoxybenzoyl-1,4-phenylene) having a following repeating unit:

$$0 = C \longrightarrow 0 \longrightarrow P (OH)_2$$

wherein "n" represents a number from 5 to 10000.

- 2. (Original) A method for synthesizing the phosphonated poly(4-phenoxybenzoyl-1,4-phenylene) according to claim 1, comprising the steps of: halogenating a phenoxy group of the poly(4-phenoxybenzoyl-1,4-phenylene) such that the phenoxy group is converted to a halogen group; phosphonic acid esterifying the halogen group such that the halogen group is converted to a phosphonic acid ester group; and deesterifying the phosphonic acid ester group.
- 3. (Previously presented) A composition including the phosphonated poly(4-phenoxybenzoyl-1,4-phenylene) according to claim 1 and at least one organic material.

4. (Original) A high-durability polymer electrolyte composite including a fluoropolymer electrolyte and the phosphonated poly(4-phenoxybenzoyl-1,4-phenylene) according to claim 1.

8.00

- 5. (Original) The polymer electrolyte composite according to claim 4, wherein a percentage of the phosphonated poly(4-phenoxybenzoyl-1,4-phenylene) content is equal to or higher than 0.1 mass % of the entire polymer electrolyte composite.
- 6. (Original) The polymer electrolyte composite according to claim 5, wherein a percentage of the phosphonated poly(4-phenoxybenzoyl-1,4-phenylene) content is equal to or higher than 5 mass % of the entire polymer electrolyte composite.
- 7. (Currently Amended) The polymer electrolyte composite according to anyone of claims 4 to 6 claim 4, wherein an antioxidant other than the phosphonated poly(4-phenoxybenzoyl-1,4-phenylene) is added to the polymer electrolyte composite, and a percentage of all antioxidants is 0.005 to 50 mass % of the polymer electrolyte composite.
- 8. (Original) The polymer electrolyte composite according to claim 7, wherein a percentage of the all antioxidants is 0.01 to 10 mass % of the polymer electrolyte composite.

9. (Currently Amended) An electrode for a fuel cell, which includes a proton-exchange material and a catalyst support conductive material, characterized in that the proton exchange material is the polymer electrolyte composite according to any one of claims 4 to 8 comprising:

the polymer electrolyte composite according to claim 4; and a catalyst support conduction material.

10. (Currently Amended) A fuel cell characterized by comprising the electrode according to claim 9.